

# Work Categories and Elements with Definitions

## Work Category

## Work Element # Work Element

## Description

### BPA Internal Operations

1 BPA Environmental Compliance - External	Covers any work contracted out by KEC, the Environmental Compliance arm of BPA.
2 BPA Environmental Compliance - Internal	Covers any work completed internally by KEC, the Environmental Compliance arm of BPA.
3 Computer Purchase	Covers any direct purchase of computers external to a contract.
4 Land Audit	Covers the hazardous material/Phase 1 work done by Fred Walasavage's group usually in support of land acquisitions.
5 Land Purchase	Covers the direct wiring of money to escrow associated with real estate transactions.
6 TBL Work	Any work the Transmission Business Line provides in support of a Fish and Wildlife project. May include appraisal review, appraisals, help in development of an MOA, real estate negotiations, and GIS work.

### Data Management

163 See RM&E and Data Management

### Environmental Compliance

10 Conduct Hazardous Materials Survey	Any work done by a contractor related to hazardous material land audits or Phase 1 review.
11 Obtain Cultural Resource Compliance	Any archeological work done by a contractor related to cultural resource surveys. May include either on the ground or literature surveys. Currently does not include work contracted out through KEC.
12 Obtain ESA Compliance	Refers to work done by the contractor in support of complying with ESA regulations developed by NOAAF. NOAAF regulations cover threatened and endangered Anadromous fish. Covers both use of the programmatic HIP BO and the approach of developing an individual BA.
14 Obtain Permits	Covers any work done by the contractor related to obtaining state, local, and federal permits.
15 Prepare NEPA Checklist	Covers all of the contractor's work in support of the completion of the NEPA checklist.

### Habitat / Passage O&M

16 Law Enforcement	
18 Maintain Terrestrial Structure	
19 Maintain Instream Structure	
22 Maintain Vegetation	
24 Operate Facility	The upkeep of vegetation that may include the application of herbicides, mowing, watering, predator exclusion, etc. Does not include fencing (see WE: Install Fence). This work element may have some overlap with remove vegetation.

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26 Investigate Trespassing

Use this work element to cover the effort involved in establishing what, if any, trespassing is occurring (human or wildlife). Use the corresponding WE for the actions taken to prevent trespassing (e.g., Install Fence). This does not include actions such as law enforcement.

27 Remove Debris

Any work to remove items from a stream or land that are undesirable, such as trash, etc. Does not include the removal of a diversion.

28 Trap and Haul

Work to capture fish and transport for the purposes of assisting migration.

29 Add Roughness/LWD

Work to add natural materials in-stream to create habitat features. Can include work for the purpose of stabilizing or maintaining a streambank.

30 Realign Channel

Any attempt to add sinuosity, meander, or otherwise return stream channel to natural state.

31 Conduct Controlled Burn

Use of fire to improve habitat.

33 Decommission Road

Covers any work involved to make a road unusable, possibly a berm or removal of the road altogether.

34 Develop Alternative Water Source

Includes watering troughs, spring development...

35 Develop Pond

Build a pond, most frequently for the purpose of benefiting resident fish.

36 Develop Terrestrial Habitat Features

Install nesting boxes, ...

37 Excavate Spawning Channel

Most often associated with Chum Salmon, is work to improve a channel by digging, dredging, etc. May or may not be a channel was used historically. May also include work to add material conducive to spawning activities.

38 Improve Road

39 Install Cattle Guard

Work to install various types of cattle guards. This activity may include the project design. Or, project design for fencing may be in the xyz work element, if the project is extremely large.

40 Install Fence

Work to install various types of fence and/or gates. This activity may include the project design. Or, project design for fencing may be in another work element, if the project is extremely large. Can also include water gaps for cattle access.

42 Install Tidegate

Usually refers to the installation of a modified tidegate. Could either be replacement of a pre-existing tidegate or the installation of a new one. It is anticipated that project design work will be captured in a separate work element, due to the magnitude of the design task. Use "Remove/Breach Dike" if the tidegate is only temporary. O+M is usually required but is often not paid for by BPA.

43 Install Water Control Structure

Usually refers to the creation of a wetland. Often requires O+M once the structure is in place, which may or may not be paid for by BPA.

44 Nutrient Enhancement

May involve the addition of either carcasses or direct nutrient introduction via a fertilizer.

45 Nutrient Reduction

Usually designed to reduce algal blooms.

47 Plant Vegetation

Install plants for the purposes of either erosion control or shading. May be riparian or upland in nature. Often requires O+M.

48 Practice No-till Seeding (BMP)

Includes no-till or direct seed for any agricultural programs designed to reduce erosion or sedimentation.

49 Reconnect Channel

Usually involves removal of material in order to re-connect channels to historical configuration.

## ***Habitat Improvement***

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50 Remove / Breach Dike

Any operation to remove part or all of a dike. Also may include the installation of a cross-dike.

51 Remove Animals

Work to remove an undesirable animal species for an area. Is often work to remove exotic species of fish. May be work to remove undesirable native species of animal.

52 Remove Mine Tailings

Work to remove remnant landscape effects from old mining operations. Could be terrestrial or aquatic in nature.

53 Remove vegetation

Work to remove an undesirable plant species for an area. Is often work to remove exotic or non-native species of plants. May also be work to remove undesirable native plant species.

55 Upland Erosion and Sedimentation Control

56 Acclimate Juvenile Fish

Describes work only to accumulate fish. If your work includes fish-producing activities other than accumulation, use "Produce Fish".

57 Develop Hatchery Annual Operations Plan

Describes work to develop a hatchery operations plan.

58 Develop HGMP

Hatchery Genetic Management Plan. Is required by Council for all production projects.

59 Incubate Eggs

Describes work only to incubate eggs. If your work includes fish-producing activities other than incubation, use "Produce Fish".

60 Maintain Fish Health / Conduct Pathology Sampling

See Peter.

61 Maintain Hatchery

Includes all maintenance activities associated with a hatchery including buildings, grounds, raceways, water treatment, equipment, vehicles, etc. This work element is intended to include all things not specifically related to fish. For example, work to produce fish would be under "Produce Fish" or "Incubate Eggs". Maintain hatchery can also be used for efforts such as accumulation ponds, net pens, etc. that are not full-fledged hatcheries, but are part of the process.

62 Produce Fish

See Peter.

63 Rear Fish

64 Spawn Fish

65 Transport Fish

66 Trap/Collect/Hold Fish - Hatchery

67 Install Bridge

Work to install a bridge often for the purpose of improved passage and/or flow. Can be associated with removing a dike, or part of a fencing project to route cattle. For a bridge, the design is typically called out in a separate work element when it is of a large magnitude. See "Prepare Implementation Design and Budget".

68 Install Culvert

Work to install or replace a culvert often for the purpose of improved passage and/or flow. In the event multiple culverts are used at the same location or passage obstacle, the work should be covered under a single work element. Multiple culverts in different locations should use separate work elements. For a culvert, the design is typically called out in a separate work element when it is of a large magnitude. See "Prepare Implementation Design and Budget".

69 Install Diversion Fish Screen

Work to install or replace a fish screen associated with a diversion. Often of a large scale, screens of this type usually require an active cleaning device. For work to screen a pump, use "Install Pump Screen".

## ***Hatchery O&M***

## ***In-stream Passage Improvement***

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70 Install Fish Trap

Installation of a trap to collect fish for RM&E, trap and haul, or brood stock, etc. Is used to describe the installation of more permanent traps, unlike a screw trap that may be used on a seasonal basis.

72 Install Headgate

73 Install Hooks and Barbs

74 Install Infiltration Gallery

75 Install Inflatable Dam

76 Install Jump Pools

77 Install Ladders

78 Install Pump

79 Install Pump Fish Screen

80 Install Siphon

81 Install Weir

82 Install Well

83 Notch Dam

84 Remove Diversion

85 Remove/Breach Dam

86 Water Exchange

***Land Acquisition / Conservation Easement***

87 Conduct HEP

88 Conduct Land Survey

89 Define Easement Terms and Conditions

90 Develop Capital Package

91 Identify Minimum Habitat Units

92 Lease Land

93 Perform Appraisal

94 Perform Title Search

95 Provide Legal Description

96 Purchase Easement

97 Purchase Fee Title Land

***Other***

98 Other

***Planning and Coordination***

99 Conduct Community Outreach

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100 Construction Management

Oversight of construction activities. Usually only used on larger construction activities where the construction and construction management are split out. Also includes bidding the work, supporting land negotiations, .... What else?

101 Create Facility Operation Manual

The development of a manual to support the O and M of a facility post-construction.

102 Develop Action Plan

Usually a large, regionally coordinated plan focused on a specific type of activity in a specific area such as habitat restoration in the estuary. Often in association with the FCRPS Biological Opinion.

103 Develop Annual Maintenance Plan (Facilities / Grounds)

104 Develop Bid Package

105 Develop Construction Plan

106 Develop Fish Passage Operations Plan

A plan developed to coordinate the operation of multiple passage facilities often operated by multiple parties.

107 Develop Implementation Plan

108 Develop Management Plan

Covers the development of Wildlife Management Plans, Land -use Management Plans,

109 Develop MOA

Memorandum of Agreement - often associated with land acquisitions, construction easements.

110 Develop Monitoring and Evaluation Plan

111 Develop Recovery Plan

112 Develop Subbasin Plan

113 Fund or sponsor Symposia / Workshop / Meeting

114 Identify and Select Projects

Covers work by the contractor to identify, prioritize, asses, and ultimately select projects. Often associated with Model Watersheds, or habitat restoration programs that coordinate multiple projects within a larger umbrella project.

115 Inventory/Assess Habitat Conditions

116 Inventory/Assess Passage Impediments

117 Inventory/Assess Watershed

118 Landowner Coordination

119 Manage Projects

Covers work by the contractor to manage on the ground efforts, or to manage subcontractors associated with the project.

120 Prepare Feasibility Study

Preliminary study to determine the feasibility of a project. Often at a more conceptual stage than - Prepare Implementation Design and Budget

121 Prepare Implementation Design and Budget

122 Provide Technical Review

The development of technical details, engineering plans, etc and their associated costs prior to implementation or construction. Usually used on larger construction or habitat restoration projects.

123 Regional Coordination

124 Administer Registration Sites

125 Coordinate Payments

## *Predator Control*

*Reporting*

- 126 Implement Removal Fisheries
- 127 Conduct Programmatic Review
- 128 Prepare / Submit Journal Article
- 129 Prepare Annual Property Inventory Report
- 130 Prepare Final / Close-out Report
- 131 Prepare Financial Estimates
- 132 Produce Annual Report
- 133 Produce BiOp / Metrics Report
- 134 Produce Daily Logs
- 135 Produce Data Analysis Report
- 136 Produce Findings / Research Report
- 137 Produce Milestone Report
- 138 Produce Monitoring and Evaluation Report
- 139 Produce NEPA / ESA Report
- 140 Produce Program Report
- 141 Produce Progress Report

*RM & E and Data Management*

- 156 Develop RM&E Methods and Designs
- 157 Collect Field and Lab Data
- 158 Mark/Tag Animals
- 159 Submit/Acquire Data
- 160 Manage/Maintain Database
- 161 Disseminate Data
- 162 Analyze/Interpret Data

*Water Conservation*

- 148 Install Flow Measuring Device
- 149 Install Pipeline
- 150 Install Sprinkler
- 151 Line Diversion Ditch

*Water Rights Acquisition / Lease*

- 152 Complete Water Entity Checklist
- 153 Lease Water Right
- 154 Negotiate Water Right Transaction
- 155 Purchase Water Right

*Friday, October 01, 2004*